

HAPPY BIRTHDAY
FLORIDA SKIP!
BEGINNING OUR
14TH YEAR!!

SUBSCRIPTION EXPIRES
THIS ISSUE

FLORIDA SKIP

VOLUME 14 NO. 1

THE ALL-FLORIDA RADIO AMATEUR'S PUBLICATION

JUNE / 1970

Price 20c

Florida State Fair

By Frank Shannon, K4GT

Since 1927, with the WW2 years omitted, W4DUG, TARC's club station has occupied the same booth at The Florida State Fair! We believe this a "record" in this category!

W4DUG, accepted and transmitted, on the average 3,600 messages via amateur-radio from visitors attending the annual two-weeks fair. This requires many members participating. To install gear at the fair-location, to operate the station, to man the front counter by assisting the public to write-up their individual messages, etc., etc. This also includes the dismantling of W4DUG and associated furniture, supplies, and re-installing it at the clubhouse. Quite a task — and after so very many continuous years participation, has become tradition with all concerned!

Our member John Fogarty, W4CI, still handles all the ad-

ministrative arrangements with the management of the fair continuously, since the original participation in 1927!

The wellknown "BPL" gal, Mae Burke, W3CUL (see her photo elsewhere), still lines-up outstanding brass-pounders for schedules to handle W4DUG traffic. "Mae" usually takes the first hour's traffic nightly (7 PM to Midnite) during the two-week period. Our Seward Van Patten WA4FTP, ably assisted by his XYL, K2GSP Helen, handled all the daytime SSB transmissions. This year, a 6-Meter Xceiver was added and considerable number of messages were addressed to overseas military and these were relayed locally to amateurs who held membership in USAF MARS System for entry into the MARS long haul nets.

Annually, The Florida State Fair is held in February and these dates include the week of "The Gasparilla" thus at-



SINCE 1927, THE TAMPA Amateur Radio Club has set up an amateur station at their Florida State Fair during February. Here we see visitors filling messages to their friends up north. An average of 3,600 messages sent each year. See story elsewhere. (Photo via K4GT)

tracting many out-of-town visitors! So, with "pardonable" pride The Tampa Amateur

Radio Club has added to the task of presenting a good image to the general public!

AUTO TAG HR-1121 BILL

We had hoped to bring you more info on HR-1121, but it appears we will have to wait a while longer.

Bud, WA4EOQ from Tallahassee sent SKIP the following radio gram: "HB-1121 pulled from appropriation committee and put on house calendar April 21st. Will come up on normal routine but do not know when . . ." Thanks Bud.

Keep tuned to this publication for the latest on HR-1121 next month folks.

I am taking this opportunity to report to the ARRL membership and other interested radio amateurs the results of the just completed annual Board of Directors meeting.

It is impossible to cover completely all the topics discussed and the decisions reached. Of necessity, I shall have to be brief and consequently, the background information as to how these decisions were arrived at may

be incomplete. However, I shall be pleased to respond to any reasonable requests for further

Silent Keys

We are deeply sorry to report the passing of the following Florida amateurs:
W. Dale Williams, W4EPC, Coral Gables
Cloyd Hewes, ex-W4TA, Miami
Joseph S. Bainter, W4RZV, Pensacola.

information either by personal contact at clubs or conventions, or phone or by letter.

Strong opposition to the restrictive FCC proposals on VHF repeaters will be filed based on the excellent recommendations of the ARRL VHF Repeater Advisory Groups, other interested organizations, individuals, The Board of Directors, and legal

(Continued on Page 9)

Director's Report

H. Dale Strieter, W4DQS

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Miami Springs, Florida 33166

6

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Second class postage paid at Miami, Fla. Published monthly.

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EX-CALLS

There seems to be no end to
the Ex-Calls. Have you sent in
yours?

W3KW ex 70Y, NA7PN,
K7ABF, K7KD, W6PN, W4KD,
W4QBR ex W1ABA, W2YBT
W4VRI ex WOEMU,
W8WDO, KA2BK, K7FP,
K3QWS

W4RBM ex W0KKQ, W8HOH,
K3UKL

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W2GKB, 1CT.

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W7LHI, W4YLA, K6DSN

WB4EWT ex W9JCY

WA4SVT ex W9CUG, KR6BA

K4HA ex W4QF, W4QV,
W4PFT, OA4AA, CE3AR, K2HA
WB4LWA ex W2FJB, W1JWH.



Letters To Editor

To The Editor:

Effective 28 April 70 Roy Durso, K4DJN
and "Ace" Goodwin, W4WEU will no
longer be associated with WB4ICJ, Space
Center Amateur Radio Society.

Recent revision of the club constitution
and by-laws allowing Air Force Eastern
Test Range (Cape Kennedy) Civil Service
and Contractor personnel to retain
membership within the club was disap-
proved by the National Aeronautics and
Space Administration (NASA) at the
Kennedy Space Center, Florida.

"Ace" and I have had a most pleasant
association with the staff of Florida Skip
and wish to thank all the gang for the
wonderful cooperation they have given us.

73.

Roy J. Durso, K4DJN

our N.J. Chapter this year.

73.

M. Toni Cox, WB2JRT
Sec'y. N.J. Chapter NAHC

Editor:

In regards to the International Phonetic
alphabet, I would like to see all amateurs
use it, since it is used internationally by all
air lines, Coast Guard, Army, Navy, Air
Force and by all communications centers
throughout the world.

Between the many variations of the
amateur phonetics, and the old WWII
variation there is too much confusion.
Since our government has given us so
many more privileges than any other
country in the world. Then let us all use the
STANDARD INTERNATIONAL
PHONETIC ALPHABET that they
recommend and use.

I realize that it does sound a bit out of
line, Delta for Dog etc., but this was done
so that people from all nations in the world
can converse with other nations in one
STANDARD INTERNATIONAL
PHONETIC ALPHABET, as we do with
the "Q" signals on c.w.

As District Communications Officer for
the Coast Guard Auxiliary, First District
(16 years) my biggest trouble was getting
the auxiliaries to forget the old WWII
Phonetics and learn the new International
Phonetics, but happily I have succeeded.

73.

Jim Mulligan W1ACM 4
Palmetto, Fla.

Editor:

Am again writing you, this time for our
newly formed NEW JERSEY CHAPTER
of the NAHC. We were granted a Charter
from the INTERNATIONAL NAHC on
Oct. 17, 1970. We have a very enthusiastic
group and hope to have many activities
going for us. At present we are con-
centrating on the 1st Hamfest & Picnic
which will be held at West Brook Park,
West Milford, N.J. on June 21st, (Father's
Day — Support Dad in his hobby on this
day), with a rain date of June 28th.

We thank you in your cooperation in the
INT'L. and hope you will see fit to do so in

MARTYRDOM IS AN ORDEAL

Whatever you may have read on these pages in past issues to
the contrary, the arrest and prosecution of the Klarman's of
North Redington Beach, for construction of their tower in
defiance of legal dubious ordinances against it, is not over. This
was brought out to us in a letter from Gene and Ada, WB4LWA
and WN4MPU. The pair, faced with contesting this action,
alone, are near the end of their patience, will and determination
to carry on.

Gene and Ada, as you know, decided to become a test case,
legally, the Village of North Redington Beach, in Pinellas
County has no basis for prohibiting ham towers nor requiring a
building permit to construct one. This is pointed out over and
over again by the ARRL Legal Kit. Yet the community govern-
ment persists in going ahead with the prosecution, knowing that
in the end they will lose. By dragging their feet and protracting
the case for months on end, the town is causing the Klarman's
needless anguish. This would be tolerable if it weren't for almost
total apathy from the rest of our hobby. Some quotes from
WB4LWA's letter to FLORIDA SKIP.

"It took considerable courage for us to buck a whole town, but
we naively believed that if one is right, it is his duty to stand up
and be counted. We have since learned that martyrdom is a
vexatious and trying ordeal."

"Our loyal supporters have stayed away in droves. We feel
that we should hang a sign around our necks, ring a bell, and
shout 'UNCLEAN, UNCLEAN!'"

It is extremely discouraging that apathy has engulfed our
hobby so much, that this serious threat to our existence, must be
fought by two lonely and forgotten people. In their letter they
say, "There are no heroes in our house." But of course heroes
they are. Instead of supporting the Klarman's the amateurs in
Pinellas County are treating them like pariahs.

When will apathy cease? Perhaps with the termination of our
hobby. To quote again, "If we lose the case, shall we appeal to a
higher court? IS OUR HOBBY REALLY WORTH ALL THIS
TROUBLE? At this point, we don't know." Well, we know. The
question, when asked, is disturbing.

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Deadline — 10th of month in Box 501,
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reprinted in any other amateur radio
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EXCEPT CARTOONS by W1GSI 4.
Written permission from the editor must
be obtained before reprinting the cartoons.
—Editor

Dear Mabel XYI Award, c/o Skip, Box 501,
Miami Springs, Fla.

FLORIDA SKIP CORRESPONDENTS

ONYX, MABEL, THE OLD TIMER c/o
Florida Skip, P.O. Box 501, Miami Springs
33166.

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O.C.W.A. SE Chapter, W4JO
O.C.W.A. Citrus Chapter, W4PI

A.F.MARS, J.R. Hopkin, WB4BND, Carol
City

ARMY MARS, Open

VHF SSB'ers R.D. Ralston, K4LFF

NETS

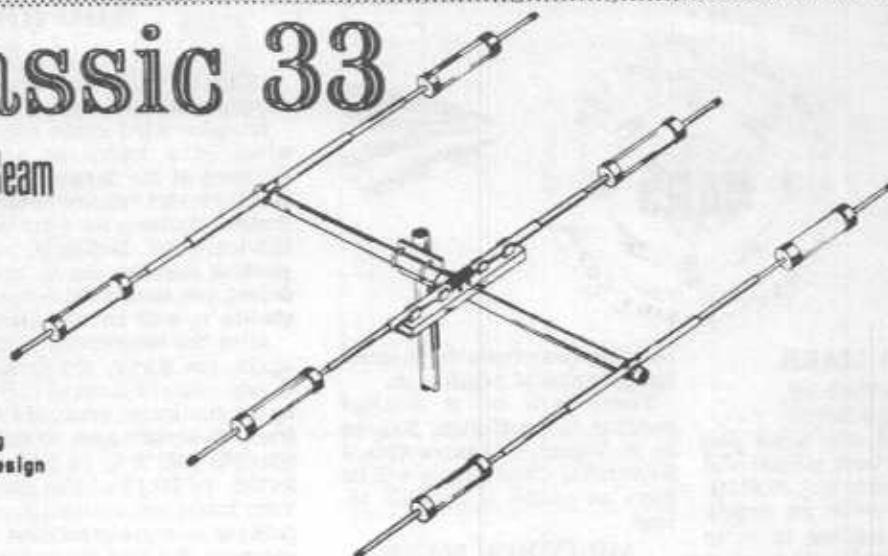
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FSBA

The Classic 33

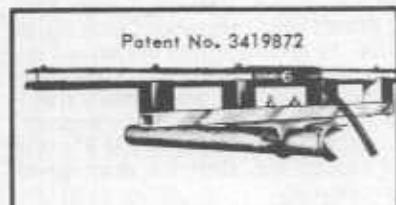
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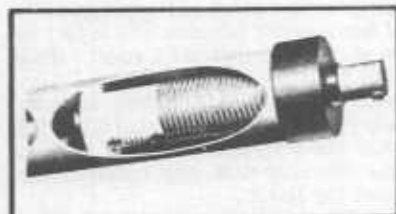


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Patent No. 3419872

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Famous Mosley All-metal enclosed traps were developed for use in World-Famous Trapmaster beams.

Another addition to the Trap-Master line, The Classic 33, rated for 10, 15, and 20 meters. Features a New Matching system, 'Balanced Capacitive Matching' for additional DX gain. Incorporates exclusive Mosley 'weather-proved' traps with resonant frequency stability. This extra sturdy beam features improved boom to element clamping, balanced radiation and a longer boom for even wider element spacing. S/s hardware. Fits up to 2" mast. Use with most heavy duty rotors.

FORWARD GAIN: Full 8 db. gain on all 3 bands compared to reference dipole or 10.1 db. over isotropic source.

FRONT-TO-BACK: 20 db. or better on 15 and 20; 15 db. on 10 meters.

STANDING WAVE RATIO: 1.5/1 or better.

MAXIMUM ELEMENT LENGTH: 27 ft.

BOOM LENGTH: 18 ft.

TURNING RADIUS: 16 ft.

WIND LOAD (80 MPH EIA Std.) 120 lbs.

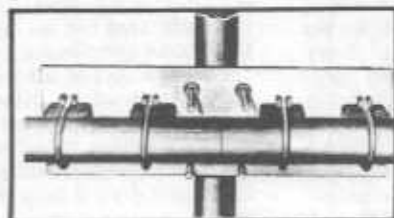
WIND SURFACE: 6 sq. ft.

ASSEMBLED WEIGHT: 42 lbs.

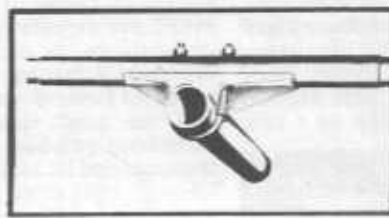
SHIPPING WEIGHT: Approx. 45 lbs.

MATCHING: Balanced capacitive matching. 52 ohm

POWER RATED: 1 KW AM/CW, 2 KW P.E.P. SSB input to the final.



Beam features improved boom to element clamping through stronger clamping blocks and revised clamping methods.



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NAVY MARS

Bonnie Wieboldt,
NOPJQ WB4FSF

Please send any news you might have of both official and personal nature to me, NOPJQ. It is hard to write an article when I have nothing to write about. Please get your news to me by the end of the month.

Probably the most noteworthy event lately was the change in our Northwest and Northeast Florida areas. On 16 March 70, the Northwest Florida area was

disestablished, thus vacating the call NOGAK. The portion of Northwest Florida lying west of the Appalachicola river has become a part of the Alabama area. The remainder now has been redesignated as North Florida, with the coordinator's call being NOGAJ/YJG. The southern boundaries of North Florida area remains the same.

Recently, we had a change of command of the North Florida coordinator from Jim Leavy, NOEQW to Henry, NOYJG. Thanks for a job well done, Jim and Henry should be commended for his good work also.

We have a new station aboard the net in Jacksonville, being NOQMC at Cecil Field. They have a KWM2A and station console. Construction on a new

building away from the aircraft hangers should begin soon.

There will be a district meeting in Charleston, S.C. on 22, 23 August. Our replacement for retiring Chief Leafy will be there so please if possible attend.

AIR FORCE MARS

By J. R. Hopkin Jr.
WB4BND AFC4BND

For those of you not able to monitor the HF frequencies, we are now in the Southern Communication Area, as of the first of May. We did not pick up the additional states that are coming into our new SCA Area 2 Region as previously stated, due to delays in a permanent frequency and administrative delays, but as soon as these are straightened out they will be coming into the fold. It is possible they will be with us before you read this. The sooner the better, as they are all fine fellows and will be an asset to our nets.

Before going any further I must pay tribute to one of our HF members. He is AFC4FXM, Jerry Hickok. His untiring efforts on behalf of Air Force MARS are surpassed only by his enthusiasm in aiding those members deserving of his help. I suggest those of you who have had the good fortune to be associated with him, send him a message and let him know your feelings. I can think of no better way to reward him for a job well done.

He is leaving us for a while to go over-seas for the third tour of duty in the South East Asia Area. He is a career Warrant Officer. The amazing thing about all this is he is in the Army. It just goes to show you that all the best people are in the AF MARS program, and don't you forget it!

I have recently accepted the job as Training Manager for Area 2. As soon as I find out what is expected of me from the new SCA director I intend to set up a training net. Right now, there is no hurry for this as we are not accepting new members until the new setup is solidified.

Antenna Insurance

By WA4ABY

(Editor's Note: Here is a timely article everyone should read carefully. A word to the wise — check into it now!)

Imagine what could happen to you in the future. The high winds of a hurricane are screaming around your house. Cringing at the danger, you nevertheless, attempt to fulfill the public service requirements of your license by providing needed communications for your local civil defense because all phone service is out. Suddenly, you hear a loud crash. Water starts gushing into the shack, and all your power cuts off. Admitting defeat, you hastily retire with your family to a nearby Red Cross shelter to wait out the vicious storm.

After the destruction is over and the sun is shining brightly again, you survey the damage to your property. Among other things, you are shocked to find that your fifty-foot tower topped by a complicated array of HF and VHF beams has broken away from its secure guys to fall on your shingled roof, gouging a sizeable hole in it. In a state of shock, you are partially comforted by fact that you are completely covered by insurance. Your house and antenna array will soon be in one piece again, paid for by those premiums you've been paying your insurance company the past twenty years. Wistfully perhaps, you dream of the new and better array you'll install with all that insurance money. After all, you are covered.

OR, ARE YOU?

"Not unless the ham specifically asked and paid for coverage not normally found in most homeowner policies," says Ray Bowen, Agency Manager for State Farm Insurance Company in Miami Springs. FLORIDA SKIP interviewed him to find out the specifics of antenna coverage. When does the insurance company pay for damage to ham antennas and when don't they? Although the facts presented apply specifically to his company, all insurance companies writing homeowners policies in Florida offer the same coverage and exemptions. Only the rates given may vary from company to company.

"Radio and TV antennas of any type, their towers, lead-ins and other components are specifically exempt from windstorm damage," says Bowen. "State Farm will provide this coverage for an added premium, which, frankly, is fairly expensive. We used to include wind damage antennas, but with the rise in their number and their vulnerability to wind, we found it necessary to exclude them from ordinary homeowner policies. It's a fact in this business, that as losses go up, the company must either raise premiums or add exclusions."

Depending on whether your antenna is attached to your residence or separate, State Farm charges an extra 5.4 to 9.2 per cent for all-metal antennas and towers to an extra 14.25 to 17.75 per cent for an antenna structure with any non-metallic structures (bamboo quads and the like.)

This is a fact of life in windy Florida that our pluckless ham didn't know about. Now he is out the cost of that expensive array. However, Bowen noted that roof damage caused by the falling antenna is collectable. "In this case, the instant the antenna started to come down, it becomes a falling object. Any damage it does is covered in all homeowner policies," he points out.

Other items specifically excluded from windstorm damage are awnings, pool screens, and any object not attached to the residence proper, such as tool shed, children's doll house, etc. In insurance lingo, these are "appurtenant structures."

As the 1970 hurricane season nears, it would pay to check to see that your antenna is protected. If it would break you to buy a completely new antenna farm, then it probably would be prudent to pay the extra cost of protection. It's up to you of course, but don't be sorry when a hurricane pays you a call this summer.

-COMING EVENTS-

June 12-13-14	BARS Camporee, Dade City
June 27-28	ARRL Field Day
Sept. 12	Ptarmigan Coast ARS Hamfest, Melbourne
Oct. 11	HARS Tampa Hamfest
Jan 23-24-1971	Miami Hamboree

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QCWA SOUTHEASTERN FLORIDA CHAPTER

May 7th was designated our Key Night of the year and surely proved to be such. Combination of dinner and meeting took place at Smitty's Coffee Shop, Thursday evening, promptly at 7 P.M. Dinners are now held Thursday evenings, the first of each month; the next one to be June 4, 1970.

Election of Officers yielded the following: W4GJ, Chairman, W4KGJ, Assistant Chairman, and W4JO, Secretary-Treasurer. Some new appointments are promised in the very near future in the nature of "On the Air Activity Managers" for each of the popular low bands and modes. The Flamingo Net roster reveals seven active QCWA members so this situation is well in hand as follows: W4GJ, W4JO, W4MNN, K4TT, K4KQ, W4FCE, and W4DTJ. (10 Meter Band)

W4BW holds the distinction of being our first ham (prior to 1918), started with Spark, at present QTH and has been on the air and kept same call ever since. W4MD hold the distinction of being Past President of the old Miami Amateur Radio Club (1927-1935). His 40 year old Call Book revealed many people who were present at the meeting. W4CJ, our QRP man of yesteryear was there, as was Ex-4QV, new K4HA of Ft. Lauderdale. Those in regular attendance, without fail W4MNN, W4EU, W4FCE, W4ILE, and W4IHW look like good material for Activity Managers.

W4IYT proposed our new dues paying plan which was accepted and goes into effect the first of the year. K4HA proposed the alternate plan which is now in effect.

We welcome new members, K4TT and W4EZG and it is good to see K4OST again. We also welcome Mrs. W4MNN, Mrs. W4FCE (WN4PDU), Mrs. K4HA, Mrs. W4CJ and Mrs. K4TT.

As promised, several ancient Telegraph Keys showed up to spark the "Key Nite of the Year". The oldest, 1 1901 Marconi Flameproof Arc key, a 1910 Morse key, a home built sidewinder, vintage 1929, a Bunnell rocker with back shunt contacts, perhaps 1920, and among others a Martin Vibroplex Morse bug vintage 1915-25. Oh yes, an ancient aircraft key which strapped to

your leg also showed and aroused considerable interest.

We now have 72 members in the S.E. Florida Chapter with many new promised members coming in soon. If you want a summer-picnic on one of the keys, let your Chairman or Secretary know. The new mailing list will contain only active attending members and friends. Notify your secretary immediately if you have missed the last three dinners and want to get on the mailing list. Plan to bring the wife, and or a new member.

Next dinner, June 4th will be "Operation QSL". Bring your oldest QSL or photo and be sure to register your own personal QSL with your secretary for posting at future Ham-Fests. Someone please dig up a card of former 4BI and 4ANP and other silent keys.

73 - W4JO Sec. SE Fla.

VHF TELETYPE

By Bob Lloyd Jr. WB4LWQ

The Goldcoast Emergency Teletype net was organized to accommodate the Vhf teletyper who is interested in serving the public in time of need. Also when the met members check in they will be kept informed on current developments in rty communications.

The net will be called by stations on the roster and then by stations not included. Unlike most nets, traffic from the high frequencies can be relayed by electrical means to the Vhf tty net. This is faster than voice and cw nets handling the same traffic.

An idea to be used in the future is employing on the net a combined Autocall-Autostart system. This enables the net control station to call certain stations without bothering other stations with traffic of which does not concern them. In this system a common and generalized call is included to call the entirety of the net.

Some stations are now planning to go mobile with teletype equipment. Stations that are mobile, could fill in the areas where a lot of traffic flows. This would leave more voice stations to fill in the places where a small amount of traffic is passed.

Using a little imagination one could see a growing art of communications in Teletype.



THIS LIVE-WIRE GROUP is the newest club in the Miami area. They are called the Dade County Amateur Radio Public Service Corps. Their club station WB4LRY is active on 80, 40 and 15 meters. Recently they obtained a 20 KW emergency generator which will be wired into their neat club station at Pace Catholic High School, near Opa Locka. Listen for WB4LRY on FD. Standing L to r: W4ZHD, WB4PWD, W4ILE, WN4OYA, WB4JJH, WA4ABY, WN4QON, WB4LKC and WB4LBB (President). Kneeling L to r: WN4QAL, WB4KQR, WN4ONR, WA4TWD and W4TZR. (SKIP Photo.)

DO YOU HAVE YOURS?

You wonder where Santa Fe, Florida is ... Shalimar ... St. Marks ... Parker ... Minneola ... Leonia ... THE LATEST EDITION OF THE FLORIDA TRAFFIC ROUTING GUIDE tells you where these places are, their zip codes, which county and ARRL section they are located and toll-free telephone info.

OR PERHAPS YOU ARE WONDERING IF THE FAST NET DOES OR DOES NOT MEET ON SATURDAYS ... MAYBE YOU HAVE A HOT PIECE OF TRAFFIC FOR WEST FLORIDA ... DO YOU KNOW WHERE AND WHEN TO MEET THE WEST FLORIDA PHONE NET ... THE TRAFFIC GUIDE TELLS YOU ALL!

Could you double check to see if a message you have for a town close to West Palm Beach

was a toll-free call from West Palm (there are 20 of them) .

YOU HAVE JUST RECEIVED A "NUMBERED RADIOGRAM" MTX NINETY FIVE ... QUICK ... what is MTX 95 ... ari eighteen ... all the ari and mtz tests are on pages 46 and 47 of the F T H R G.

COMPLETE INFORMATION ON ALL THE FLORIDA TRAFFIC NETS ... BOTH PHONE AND CW ... IS LISTED FOR YOUR CONVENIENCE ... and ... over 800 cities in Florida at your finger tips.

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Platinum Coast Amateur Radio Society's 5th ANNUAL HAMFEST

SEPT. 12, 1970 MELBOURNE CIVIC AUDITORIUM
MELBOURNE, FLORIDA



I.R.A.R.C. NEWS

By S. T. Walker, Sr., W4EWB

The Indian River Amateur Radio Club, Inc., of Cocoa participated in the annual Florida Skip QSO Party with the following members participating: Dorsey Dean WA4RIA, Ernie Baldini K4RBD, Norm Holzweg WB4EBH, Don Klobe WA4KJV, Bill Behmer WB4BSH, and yours truly S.T. Walker W4EWB. We all had plenty of practice for the up coming Field Day in June. The plans for this event are well under way and should be a good one again this year.

A preplanning antenna party was held at the QTH of Dick Stauffer K4DVW. Dick is planning on putting up a 3 element beam (tri-band) up approx. 40 feet. Helping with the planning were Don WA4KJV, Norm, WB4EBH, Jim WB4BZY 4, Riley, WB4FXU, and Roy, K4DJN. Another antenna party is being planned in the near future for Dick.

On May 11th, Mr. H. D. Strieter, W4DQS, our S.E. Division ARRL Director will give a talk to the IRARC on the results of the ARRL Board meeting just held. Dale attended our first meeting in April and

gave us a good preview on some of the up coming topics that interest us all. We hope to have more details in next month's Club News.

The IRARC will have only one meeting a month during May, June, July, and August. The meeting will be on the second Monday of the month at the Today Newspaper Auditorium in Cocoa at 2330Z. Everyone is welcome.

FLORIDA SIDEBANDER ASSOCIATION

By C. B. Schnerr, K4SRI

"When you put your hand in a flowing stream, you touch the last that has gone before, and the first of what is still to come."

A few years ago a group of fraternally minded amateurs joined together to promote what was then a comparatively new art, that of sideband transmission and reception. During the ensuing period that method of communication has virtually dominated the amateur bands. More and more the comment is made, with justifiable pride, "I have been a member for — years", "I was a charter member" etc.

We have taken in twenty-five members in the last three years and are about to acquire the largest group of new members in the last five years. Greetings, newcomers; may you enjoy our organization and its fellowship as much as some of us have. When the word "our" is used, please remember that it means you and me, for without the faithful service of the long term member, and you, there could be no continuity in any organization, any hobby, any research.

For the future, we can make one solid

prediction: "The future of communications shows great promise but, because it involves the extension of man's senses, the kinds of communications services provided eventually will affect in one way or another the life of every citizen. The phonetic alphabet, the printing press, the telegraph, the telephone, radio, and now television have each changed man's mode of communication in giant steps. No planning of the effect on human beings attended the introduction of these advances in the coupling of the minds of men mainly because research in the human sciences lagged so far behind current scientific knowledge."

— from a recording of speech delivered by J.C.R. Punchart, President of the Canadian Radio Technical Board, presented at the International Electronics Conference and Exposition, Toronto, Ont., Canada October 8-8, 1969.

We are involved in the science of communications and pledged to use that art for the advancement of better human relations. Our projects, of which we are justifiably proud . . . and the fellows who have taken part in them . . . of whom we are equally proud . . . are a step in this direction . . . let's keep them going.

HOLLYWOOD AMATEUR RADIO CLUB

By Minnie Levine, WA4RLS

At our April meeting, we had a most interesting program. Tom, WB4CKY brought his RTTY equipment and showed us how it worked. Many of the members enjoyed typing on it.

We have five new members, which is most gratifying, and the novice class is making great progress and we are quite pleased about that.

We are planning a 'flea market' sale in the near future, any 'white elephants' we'll be glad to get.

Our meetings take place the third Monday of each month, we are always happy to welcome visitors.

GULFSTREAM SOCIETY OF AMATEUR RADIO OPERATORS, INC.

By Al Suhr, WB4AID

There is no way to express the satisfaction of accomplishment. THE TOWER WAS ERECTED AND MADE FAST ON SATURDAY, MAY 9th. The repeater was off the air for only a brief period of time. Dick Kidder, Al Suhr and Claude Edwards set the tower in its place. Actually Claude and Dick did the real long work for they did not have help until Al's very late arrival. On the day before a work party manned by John Szymanski, WB4EGU; Dick Kidder, Al Suhr, Bud Roll, WA4FFJ; Frank Piverotto, WA4TBN; Claude Edwards, K4RTK; and Jim Johnson, W4JBZ lowered and removed the old mast.

Another great step forward for the Society is the purchase of low frequency gear. The Board of Trustees delegated Bud Roll the authority to purchase a used Swan, SW-240. This action surely makes us very proud, ownership is most important too, for now we will no longer inconvenience Jim Johnson, who is always coming to the rescue.

We welcome into the Society, Alan Harp,

WA4SVH, Extra Class, who has answered our letter to participate. Alan is an Electrical Engineer - Electronics Major from Indiana Technical College in Fort Wayne. He is a Test Equipment Design Engineer currently with RCA in Palm Beach Gardens.

NOVICE operators of the Society are able to work with the Novice station provided on loan by Al Suhr and Larry Nurmil. This was done through the Board of Trustees. Incidentally, Neil Sommerfield, WN4PKP, Net Control, Florida Novice Teenage Net uses this station on our meeting nights. Just thought you'd let us claim him.

Closed circuit TV at the Science Museum and Planetarium in West Palm Beach has been installed in the name of the Society by Dick Kidder and Al Suhr. The display will be on exhibit continuously.

Warren Little, WA4EFA, was married on May 2 in New London, N.Y. to the former Miss Barbara Stabb of that city. Warren is a Design EE for Western Electric in Burlington, N.C. where they will make their home.

FLORIDORAS

By Alma Burton WA4YNX

The Floridoras are again sponsoring Jane, ON4AD for membership in the YLRL.

W4GPX, Ruth has now had both eyes operated on for cataracts, and we understand she is doing just fine.

W4BIL, Fran and OM Bill are celebrating his birthday by going on a camping trip.

W4CWV, Annette and OM Tommy are enthusiastic sportscar rally participants. They came in 1st Pro in the monthly rally in April.

WB4GZN, Kay and family recently made a short trip to San Antonio, Texas.

WA4YNX, Alma's 17 year old daughter Linda, a student at the Florida School for the Deaf at St. Augustine, was a delegate to the Junior National Association for the Deaf convention held at Gallaudet College, Washington, D.C. in April. Linda is secretary for her school's chapter of the Jr. N.A.D.

New Floridora members are WB4MKE, Helen Lasker of Ft. Lauderdale, W2IQP, Lillian Klarfeld (Kaufman) of Hillsdale, N.J., who spent the winter in Miami Beach, and W4JID, Mildred La Morder of Oldsmar. We all hope to meet them on the air or in person soon.

TAMPA AMATEUR RADIO CLUB NEWS

By Frank Shannon, K4GT

Al Cito, WA4MXV, spoke to membership at our meeting Monday, May 4, 1970. Al's subject was the FET, the transistor that "replaces" the vacuum-tube. Al was in his usual form, with his unique "J-jargonese", somewhat limited due to presence of one lady-member!!

Ray Murphy, W4BNE, gave an excellent demonstration of a Norelco Cassette-type recorder — not expensive and of terrific quality reproduction, plus numerous accessories — all for approximately 40 Green Stamps.

We had attendance of 22 members, out of latest "head-count" of 49 paid-up members!! Quite a good percentage. All we need, now, is for others to dig into their respective little piggy-banks and bring

GULFSTREAM SOCIETY OF AMATEUR RADIO OPERATORS, Inc.

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(See page 13 for more details)

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W4IZ

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Daily
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2300 GMT

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their dues up-to-date and thus return our total membership strength to normal!! Come on, fellows!!! See, or write that check to our O. G. Dodson!!

Frank Ziegler, W4BTP 4, was appointed Coordinator for our club VHF net and his main task will be getting stals for net members — so that all will be on net frequency of 51.450 MHz every Thursday, 8 PM EDT. Members, Bill Holleyhead, Gordon Callender, and John Fogarty, are all busy building a 1/2 wavelength vertical ground-planes. They are copying, nearly as good, the Mosely 6 Mtr Diplomat. It will really be interesting if they can equal or better the store-bought price. Your scribe is offering them a prize, if they win, of lots of "giggleswater". You see, your scribe owns a manufactured one, and the aforementioned three have worn out my yard grass, walking around underneath it, stealing it's secrets!! C U

DADE COUNTY ARPS

By Boris Kiriloff Jr., WB4LKC
The Dade County ARPS has been very active in a state wide campaign for support to house bill no. 3585. The Corps has been passing radio grams to several stations in Tallahassee. So far over 2000 messages have been handled.

The Corps is planning an auction to take place in September. As of now there is no date but I look for ads in Skip.

Congrats to our president's XYL who received her novice ticket and will be signing WN4QON.

The Dade County ARPS has meeting's every 2nd and 4th Thursday of every month at 8:00 PM at Pace High School, 15600 N.W. 32 Ave. All are welcome and we would appreciate your company!

DADE RADIO CLUB

Howard L. Chambers, Jr. WN4QAK
The 2d annual banquet was held at the "Sweden House" restaurant on May 6. The banquet is like Easter, it's the only time most of the members are together at one time. No formal meeting was held this month, however, there was open discussion at the banquet concerning field day, the Orlando hamfest, etc. The banquet had good turn out about 56 members and their XYLs came.

Members with new calls are: Walt Thain, WB4KKK ex WN4KKK, Mary Jo Dean WN4QON ex S.W.L., Chip Veres WB3QON ex WN4QON. New members are: Art Rauch W2DID 4, Nick Pikarski WN4QCL.

HARS NEWS

By Roy Scott, W4UHF

HARS is in its 10th year, and will celebrate its 10th Anniversary in October. Many changes have taken place during that time, especially with regard to membership. Of the original charter group, only a few continue to be active. New and younger members are taking great interest in amateur radio club activities, including being officers and directors, and are coming up with new ideas for improving the public image of ham radio, with projects for better public service. Many of our new members were former CB'rs who got their tickets with the assistance of club code and theory classes.

There are few club projects that bring club members together in a joint effort other than a hamfest. Fortunate indeed, is a club that sponsors a hamfest, such as HARS TAMPA HAMFEST which will be held October 11 at Lowry Park. As early as the March meeting, George Dixon, WA4VQT, president of HARS, appointed committees and offered initial plans for our big event. This is a project in which the whole club takes part, and committees are hard at work on their various assignments to do everything possible to make it a long-to-be-remembered, smoothly functioning event for our many guests from far and

near. Every effort is made to correct or improve items that were brought to our attention at the last one, and to make it a more enjoyable gathering for hams and their families. 73

SOUTHERN SECTION COUNTRY COUSINS

By Cathy Soehl
W4BAV AREA ARNS

New Officers of Country Cousins were elected at their Orlando Hamfest Breakfast, 8 AM, May 24th, Howard Johnson Restaurant.

WB4IHR, Jim Oates, reported his absence from the net. He was in the hospital with a serious illness, which he contracted when he visited a patient.

K4BLM, Stan Offenbutter, kept us advised of XYL, Freddie's operation April 27th; but we were surprised at her rapid recovery and return home May 2nd. She will have good care at home as Stan retired April 11th.

The Country Cousins appreciate radio equipment, etc., from the estate of K4KNB, Keith Ingalls, donated by his son, Chuck, of Warren, Mich. Also thanks to K4JSS, Paul Montgomery, for his assistance in getting the gear to us.

WB4JRY, Stan Zimmer, is due congratulations on passing his General Class License.

K4BAK, Lou Siculo, must take it easy as he suffered another heart attack, but is home recuperating. W4SKC, Dick Hogshro, is another "Cousin" that has been having a real bout with the bug. Also it is good to hear WA4UJX, Doc Putnam, occasionally checking in after his illness. He is also back to work in the hospital.

WA4CPL, Gus Goings, we hope, enjoys his trip to Bermuda and will give us a report on his return.

SUNCOAST ROVING REPORTER

By Cathy Soehl
W4BAV AREA ARNS

K4WXS, Lee Kanarian, has her troubles, while preparing dinner, cut her hand which required 6 stitches. This curtailed her activities and put OM-Charlie back on KP duty. If Lee is heard on the air a little breathless, it will probably be to having the mike in one hand, while pedalling her new bicycle exerciser, in the ham shack. WN4MEA, Maude Hall, XYL of WB4ISZ, Jim, won 11 ribbons out of her 15 entries in the Manatee River Garden Club Flower Show held in Bradenton.

W4UFR, Earl Hill, surprised everyone recently by going deep sea fishing. Now we are prepared to hear some good fish stories and the big one got away.

K4GZ, Cal Louis, is Vice-Chairman of the newly organized QCWA Sailfish Chapter. Gal and XYL, Minna May, celebrated their 42nd wedding anniversary April 29th. Congrats!

W4CXL, Jack Faulstich, has been asked to install an electron microscope at the U.

of So. Fla. Jack and XYL, Bess, have moved to their new home, 8508 Forsythe Drive, Seminole.

K4DII, Fred McKenzie, is a "Reliability Engineer" in the Tube Division of Sperry Rand Corp., Gainesville. He graduated last Dec. from the U. of F. with a Bachelor of Science in Elec. Engineering degree.

SPARC enjoyed an interesting talk by Walt Patterson, Line Supervisor of Fla. Power Corp., at their May meeting. Walt, though not a ham, is well known as he is always willing to help with our electrical problems.

WA4PYQ, Bob Grove, held the attention of members of the Sarasota Amateur Radio Assoc., when he spoke on "Electronic Metal Finders" at their April meeting.

WESTERN FLORIDA NEWS

Frank M. Butler, Jr., W4RKH

Pensacola: New appointments WA4SSB, OBS & OBS; K4CFS, OPS. K4VPY is now Net Mgr. for QFN, WB4JHQ dropped the "N". About 15 boys from K4FKV and W4ETE's Novice Class are ready for exams. WA4IZM put up 40' tower, tri-band and 2m vertical. Thieves broke into his car and took his HF mobile rig and FM control head. WB4PKR m is active on the 2m repeater; he is also on 6m SSB with a TR-8.

Fort Walton: WB4KJX passed General Class. K9JGO and WA9GZU are new hams at Eglin. Appointments: W4FDJ as OBS & OPS; WA4LBM as OBS. W4ROM departed for duty as a marine radio operator. The Playground ARC changed its meeting dates to first and third Thursdays. A 6 db gain antenna was installed for the FM repeater receiver. The FM Assn. received authorization from FCC for multiple control points. W8HQB is becoming an expert on tone oscillators.

Panama City: WB4LXK and K4HLU 4 pass the Advanced Class exam. Apalachicola: WA4VFC is with Fla. Power here.

Tallahassee: The TARC is assisting a blind student at FSU in getting his ticket. WA4IBL has a new HW-17A. WB4LOQ lost the finals and RF choke in his rig when his antenna blew down!

BANDRON AMATEUR RADIO SOCIETY

By Gene Burton, WA4YNW

Reservations are coming in from all over the state for the Ham Camporee June 12-14. There have been inquiries from as far away as Tennessee. B.A.R.S. hopes that all hams who like camping will be there. Remember, everyone is welcome as picnickers on Saturday afternoon and evening. Contact WA4YNW.

At our last meeting, AJ, WA4RGO gave a talk on the Florida Sidebanders Association and details of their work with the Florida School for the Blind and the Boys' Ranch at Live Oak. Also, many of the plans for Field Day were whipped into shape. Any amateurs in the area are in-

vited to participate in Field Day with us.

B.A.R.S. sure is a busy bunch. Several were present at the SPARC Hamfest, and there were green vests all over the place at the Orlando Hamfest. Next, members are headed for the Ham Camporee, then a really big blowout on Field Day. For dessert, we will be taking messages and showing off Amateur Radio all day at the Brandon Fourth of July celebration.

Dennis, WN4OXX, our membership chairman, luckily escaped with only minor cuts and bruises when WB4LHF, Bill's 50-foot tower he was working on collapsed. As it fell, he managed to jump free and landed in soft dirt.

DELTONA NEWS

By Jack Six, W4YPA

Deltona CD net meets 7:30 PM every Friday night 28.605 kHz with very good attendance. Fifteen formal simulated messages handled and our usual round table followed each formal net. All members seem to enjoy the informal after regular net. We had a new check in this month K4AIN, Frank, of Sanford.

W4TNK, Lee is enjoying a vacation to Columbus, Ohio, visiting their daughter. W4MZK, Doc is still improving from his operation. Had a land line with Doc several days ago and he is in fine spirits.

Had a nice QSO with K4IH, Bill, of Orange City. Bill has a new seventy foot tower from Rohn up with Tri Bander on it. Join our CD net on Friday nights Bill.

Tom Ames, K4LZ will be admitted to the Seminole Hospital, Sanford, Florida May 3rd for surgery. Best wishes for a speedy recovery Tom.

Nothing more to report from Deltona except it is great to be alive and every day you are born anew and have your entire life to live. Have a good summer.

B.A.R.C.


By Jim Wilson, W4GDK

The Xyls, who are so patient with us and our long hours of operation, were in for a treat Wednesday night, May 13. It was Broward Amateur Radio Club's Ladies' Night. We entertained the gals at dinner and a very enjoyable evening of entertainment was planned. A peppy singing combo was on deck and door prizes brought some exciting surprise packages.

The Club's training program under the direction of Zane McCreary, WA4KXI, classes for which are being held at the S.W. Ft. Lauderdale Boys' Club, is moving forward steadily. They meet Monday and Thursday evenings as they work toward their licenses. Zane is asking for assistance in the teaching.

For our July meeting we are hoping to have the famous movie "A Ham's Wide World". Our program will interest you greatly and no matter what phase of ham radio interests you the most, you'll find others at BARC who share this interest

(Continued on Page 8)



AMPHENOL AND HARD-TO-GET PARTS

BENDIX

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CLUB NEWS

(Continued from Page 7)

and will eagerly discuss it with you. The June meeting place is being changed to the First Federal Savings and Loan, 3rd Ave. at Los Olas, Ft. Lauderdale, at 7:30 PM Wednesday, June 10. We cordially invite anyone interested in amateur radio. Maybe we can help you.

VERO BEACH AMATEUR RADIO CLUB, INC.

By Grover, W4DFZ

Henry Siemen, W20IE 4 motoring up to his old stomping ground namely Long Island, N.Y.

Dick Jackson, WA4RQB again helping W4DFZ get up antenna about twenty feet higher, by converting over to tower from a three section telescoping tower that only got up to about twenty five feet. We are now a good 45 feet up in air, so look out.

Grover, W4DFZ trying to get a new chapter started for the QCWA and although progressing quite well, has run into a few snags. The initial name of the chapter will be "Treasure Coast", but several members in the Stuart area believe it should be "Sailfish". Sure this can be resolved in a democratic manner in the near future. QCWA General Manager and Executive Secretary, A. J. Gironda, W2JE advises charter will be granted soon as name has been decided and that has been done and the general manager has been advised. The following have applications pending and will become members as soon as processed and QCWA numbers assigned: Tad, K4AGU; Tom, W4KEE; Ray, WB4PLQ W8FMU; Henry, W20IE 4. Creed, W4TZ got his application in to become a charter member and at a recent meeting he was made secretary-treasurer. C. A. "Cal" Louis, K4GZ, vice chairman and Grover, W4DFZ chairman. The new chapter will cover the territory between Melbourne Beach on the north and Lake Worth on the south.

THE GENTLE ART OF QSL-ing

By Frank, W4JO

With postage rates on the climb, it is very evident that in the very near future QSL cards may be only a fond memory. In a life-time of ham radio (50 years), I have answered every card received, making me an honorary member of the 100 percent QSL Club. I'll admit that more than half of my cards bare the original 1c stamp as opposed to the present 5c or 13c stamp.

I keep a very accurate record of cards sent and received and today the returns are only about 10 percent on USA cards and you had better buy your foreign cards in advance. I remember back in 1920 when QSL'ing started, it was not considered unusual to get 100 percent return on cards sent. Short wave listeners sent cards and we even answered them 100 percent.

When you are sending QSL cards, look them over carefully to be sure all vital information is correct. Be sure to state the mode, frequency, time, date, signal report, and your signature. I've had cards returned "No Credit" when they lacked even one of the above items. A sure-fire way of getting a card is to enclose a photo, or a miniature calendar, a ham cartoon, or something a little extra.

Perhaps the most successful method of getting a QSL from USA hams, is to enclose your card in a sealed envelope, but be sure to "accidentally" affix a 5c postage stamp loosely on your card in such a manner that it can be removed. Foreign cards is another manner. Some

countries are very poor and the money exchange may run six to one in value received. If you really want that card, a new clean dollar bill is reputed to get results, however remember your foreign friend can easily spend a greater portion of his paycheck on QSL postage.

Your QSL Bureau is doing a wonderful, thankless job. From what I have heard, they are almost overwhelmed by the volume of business. Be sure to keep them well supplied with self addressed and stamp affixed envelopes so that they can clear their files promptly.

We need a similar system now for USA cards mailed in the USA. The active on-the-air ham visits his wholesale dealer at least once a month. This is the key to a new system. Amateur Radio Center in Miami has agreed to act as a Miami QSL Bureau and it is felt that ham dealers in other large cities might do likewise if approached properly.

The Miami Plan is for the dealer to act as receiving agent only, with the ham required to pick up his own cards in person. To speed things up take a few cards down to ARC and have them rubber stamp their address on the back of the card. Call attention to your contact that he can avail himself of this service by sending two or more Miami QSL's to your dealer (ARC). 10 to 12 cards (1 oz) can be sent in a sealed envelope, first class for 6c. Your returns are bound to improve at this rate.

To get things started, why not send an ARC addressed en-

velope with 6c stamp affixed, alone with your next QSL to some busy ham who most surely has worked several Miami hams. Tell him ARC is your QSL bureau and you want to share your envelope with any other Miami cards he would card to send. This plan could spring to life all over USA, so lets give it a boost.

FIELD DAY IS A COMIN'

It's about that time of year again. Plans, tents that don't leak, generators that will run at least 24 hours, beams that will beam, operators who will show up to operate and all that stuff. FIELD DAY — June 27th and 28th! Mark it down. This year make up your mind to get in there and operate with your club or from your home station. It's great fun. Try it.

Once again FLORIDA SKIP will have beautiful trophies to the winners of the Multi and Single transmitter class. As last year, we will use the same rules as ARRL. This should make it simple for everyone and cut down on any misunderstandings.

Don't forget, send your FD logs to ARRL, BUT send us a copy of your scores soon as possible. We will have a listing in SKIP months before QST. Oh yes, your scores must appear in QST to be eligible as a winner.

Upon recommendation of the ARRL Contest Advisory Committee, the 1970 Field Day rules will include several new features.

The field day period will be advanced one hour to start at 1800 GMT June 27 and end at 2100 GMT June 28. Time sharing devices will be expressly prohibited.

Any Class A group manning four or more transmitters simultaneously will be permitted to set up a Novice only station without changing the basic entry classification.

FD rules are now available upon receipt of an addressed stamped envelope. Clubs are requested to ask for rules at once, since no automatic mailing will take place this year.

When ordering log sheets, indicate the number of transmitters planned to be operated simultaneously and the approximate number of contacts anticipated. Allow four weeks for regular mail delivery of Field Day logs. (ARRL OB 268)

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DIRECTOR'S REPORT

(Continued from Page 1)

counsel. In brief, ARRL will request maximum privileges allowing chain linking of repeaters, optional code access, crossband operation, elimination of restrictive subbands, one KW limit, mobile repeaters, automatic or manual identification at intervals not greater than 10 minutes and relaxed logging requirements. The complete text of the filing will appear in QST.

More mail was received by your director on the proposed license fee increase than any other subject. All pertinent comments were collated and forwarded to ARRL Headquarters to assist in the filing by ARRL in opposition to this proposal. As the filing had to be completed prior to the formal board meeting, the directors, by mail, directed the Secretary and legal counsel to strongly oppose the FCC's proposal.

Valid arguments objecting to the increase based on the excessive costs of licenses, incompatibility with the incentive licensing program, lack of value received, amateurs supporting other services, and the manner in which examinations are given were all developed and expounded competently. The complete text will also be in an early issue of QST.

A counterproposal was recommended requesting the adoption of element type examinations. That is, if the code test is passed, credit would be received for this portion and a repeat code test would be



DON'T FORGET FIELD DAY is not far away. Here is a 1925 FD in the hills near San Diego, Cal. Bill Kargoll K4EQ (left) of Jupiter sent us this photo which was yellow with age. The guy on the right was W6BAS, now a silent key. No air conditioned FD sites here.

(Photo via K4EQ)

unnecessary for a 12-month period.

The concept of Advisory Committees was extended and strengthened. The VHF Repeater and Contest Advisory Committees were continued and a DX Advisory Committee was authorized.

A proposal to widen the phone subbands was defeated resoundingly as not being in the best interests of amateur radio. Your director voted against the proposal for the following main reasons:

1) International impact on non-USA Radio Amateurs,

2) Adverse effect on upcoming international conferences,

3) Effect on other subband allocations.

We cannot take the selfish attitude that what we do in USA is of no concern to others. The point that USA has one vote at international frequency conferences is one point that should be uppermost in our minds. Any unilateral action on our part effects all other areas. There are no "iron boundaries" separating the countries of the world when we talk of Amateur Radio. We must strengthen our associations and friendships

with our fellow hams in as many countries as possible so that the radio amateurs can have a strong voice at these international conferences.

The effect on novice, RTTY, and CW operations are obvious.

I was gratified that the vast majority of radio amateurs that gave me their counsel prior to the Board Meeting agreed in principle on opposing the proposition even though the greater majority of them sacrificed their immediate apparent gain of more phone frequencies.

ARRL sponsorships of a 160 meter contest was authorized and a change in the mileage limit for club aggregate contest scores to 175 miles was ordered.

Studies were ordered on several matters such as reduced teenage membership fees, WIAW daytime code practice and bulletins, payment for articles in QST, hand-held emergency gear and interference to solid state home entertainment equipment.

We were assured that there would be no changes in FCC enforcement of the regulations concerning DX QSO's on the 40 meter phone band. There had been speculation that interregion DX QSO's above 7100 KHz would be illegal due to an interpretation of the 1959 Geneva Treaty.

Of interest to DX'ers was the alleviation of rigid proof showing the operation was actually conducted from a specific location. However, in case of any question arising from a DXpedition, this proof must be furnished by the participants prior to acceptance of DXCC credits.

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10-10 INTERNATIONAL NET EVERGLADES CHAPTER

By K4CYF

The final results of the Annual 10-10 Round-up Contest held February 20-27 are now available from the California headquarters. VE4LI won the AM award with 443 points. G3IUD won the SSB award with 105 points, W4RX won the CW award with 18 points, and the Mixed Mode award with 159 points.

A total of 73 chapter heads was worked by VE3LI on AM. G3IUD worked 36 chapter heads in the SSB mode. W1AND trailed last with 6 chapter heads on CW.

The Everglades Chapter was organized about six months ago and now boasts 15 members. W4IKC, net control, now rates the Gold and Silver Bar award with a total of 247 members worked to date. K4CYF, Temporary Net Control, also rates the Gold and Silver Bar with 227 worked to date. The latest count is over 1100 members in the 10 meter band, world wide.

7265 NET

By Rick, WB4JRV

We held an election for new officers this month. Here are the results:

Net Manager: WB4JRV
Asst. Manager: WB4INC

The term of office is one year. At this time we would wish to thank the originators and co-managers of the past year WB4IH1 and WB4IME; enough can't be said about the time and effort they spent starting and building up the net.

As you can see, by full agreement of everyone involved in the net, we have dropped the "St. Pete" from the name of the net.

Also, we have decided to keep the

meeting time at 1600Z year round (11 am EST & 12 noon EDT).

Gary, WB4IH1; and Rick, WB4HNL; went up to WB4PHT at the Fla. Sheriff's Boy's Ranch, helping to further interest in radio there.

Traffic and check-ins are up again this month in the averages. We held 3 meetings in April with a QNI of 47, an avg. of 15.7; and a QTC of 15, an avg. of 5. Do you have traffic that can't wait till Monday or do you work all week? Then join us on 7265, on Sun. at 1600Z. 73, es CU on the net.

FLAMINGO NET

By W4JO

Weekly meetings with roll call every Friday night, starting at 7:30 (EST/EDT) and on 29.044 KHz. Big Bird, W4GJ is His Royal Master Controlship. Membership is now 37, mostly in the Miami area. To become a member, merely answer in three consecutive net meetings, work 5 Flamingos on the 10 meter band, pay your dues and you're in, with a fancy certificate and ID card. The new roster prepared by W4MNN was delivered to all members.

Walt tried his new verticle on the net but it lacks something, height, probably. If you have tried a verticle and it seems too noisy compared to a beam, try this: Use a quarter wave verticle in conjunction with only two ground planes. Now rotate the ground plane to null out the power peak — it works, try it! This puts out a fair ground wave good enough for local nets.

We are about due another hidden transmitter hunt-picnic; Carl, W4DTJ, the guy with the 5 band rhombic, will be the bunnyrabbit. So get those mobiles ready. About seven have joined the AREC's with 10 meter mobile units and more are expected to join, with the summer coming on.

Speaking of summer, short skip was in April 28th with stations worked by Flamingo members in 15 states including Del., Va., Pa., N.Y., Oh., Md., Cal., Conn., N.C., Ala., Ga., Colo., Ind., Tenn., Ariz. Most of these states have not been heard since last summer. The band was open until nearly midnight.

Flamingo net members will continue to monitor 29.044 (AM), with some mobiles on 29.044 and 28.800 KHz.

FLORIDA FAA NET

By George Cooper W4EH

April ushered in a month of odd propagation and ionospheric conditions for the 40 meter band as far as ye ole editor was concerned and only a few stations of the FAA net could be heard. The net meeting 3rd May conditions appeared close to normal with signals generally good from all locations. However, station check-ins was somewhat below normal and it is hoped with the improved conditions that check-ins will increase and make our net a little more interesting. So don't give up fellows net meeting time still (9:45 AM) Sun. 1345 GMT 7260KHz.

W4JVA, Paul Colby, advises don't blow your power supply, it can get rather expensive.

W4LIU, "Pete" Blair Pearson, was a recent new check-in. Glad to have you with us Pete and welcome aboard.

By the time this goes to press Stark Totman, W4YB, and his Airstream trailer should be on their way to New England.

While April was a rather poor month for the Florida FAA Net with W4JVA off with power supply problems and poor propagations it is urged all members to please check in. Thanks and 73.

GATOR NET

By Ev Battey, W4IA

April was a rather rough month on GN with reduced attendance, less traffic, bouts with skip conditions, and several operators ill or out of town. But things were looking up as the month closed.

The shift to 0830 EDT (1230 GMT) was without incident and our "skip" troubles were not related to the new time. During periods of poor conditions on 7115 kHz, our alternate frequency of 3651 is used to advantage. As standard procedure, the NCS opens the net daily on 7115 at 0830. If he finds conditions unworkable, he then shifts to 3651 at 0835.

Congrats to Frank, WB4HKK, who qualified for GN certificate. Also to Rlj, W4EHV, our sole 100 percent QNI man in April. Thanks to Jim, K4JWM, for some FB pinch-hitting at NCS.

Although Gator Net is "all-Florida," our coverage is somewhat spotty. We would welcome with open arms QNIs from the seldom heard areas.

QFN REPORT



By K4EHY

April QFN was fine until the fateful day of Daylight time change, when confusion descended upon us. What with many people missing the QNC's announcing the staying on 3651 until conditions got too bad,

and simultaneous sessions with the FAST net made things a little hairy for a while. The summer is upon us and with that is the accompanying bad conditions, vacations and missing Reps and skeds.

KZ4DA, Ed, in the canal zone has become a regular fixture, as he tries to spur some kind of activity up, down in the indolent tropics. Ed is from W2 land, and is looking hard at the SCM job down there. WA4LBM, Don, is back regularly again between times spent slaving for the Air Force and a new xyl. Heard W4LUV, Chuck, on for his monthly drying out of his equipment. Welcome to Bob, WA4UQQ in Winter Haven and WA4WEB, Ricky in Tampa. Other new calls heard in April were WB4LIE; WB4KDI; WB4OMG; WB4CFM. Looks like K4BSS, Nick, former regular QFN member, has been transferred again to 3-Land. He should be retiring soon back to Pensacola. Missing lately has been W4BVE, Alan and WA4SSB, Jim.

June 1 begins new term of office for Mike, K4VFX, as Net Manager.

NCS's are reminded to route ANY traffic not deliverable on QFN via a SSB rep. Not because SSB is a better way to handle traffic, but it is admittedly easier to get 100 percent representation of Florida cities on one. Although we have a roster full of sbs reps, ANY station who can act as liaison to any SSB net so inform the NCS when QNI. If a regular REP or Alternate spot is wanted, contact Assistant Manager WA4SCK.

All ARRL members should try out the OPEN CD Party (Communications Department) held in July. If you would like to join this get-together regular, you can qualify for an ARRL Official relay station appointment. See SCM W4KGI or RMs W4ILE or K4EHY.

TROPICAL PHONE NET

By Ken, W4SMK

The Tropical Phone Net has a new net manager, Ricky, WB4HNL, Tampa.

(Continued on Page 12)

TRAFFIC HOUNDS

Net	QNI	Avg. QNI	QTC	Avg. QTC	Sessions
FMTN	769	30.8	342	13.7	26
QFN	710	11.83	529	8.81	60
TPTN	600	23.0	200	7.7	26
FAST	861	33.3	197	7.15	26
FPTN	575	22.12	175	6.73	26
GN	233	7.8	197	6.6	30
WFTN	431	-	526	-	30

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4.	W4MOQ	470	14.	K6QPH/4	114
5.	W4IYT	328	15.	W4KRC	94
6.	WA4SCK	284	16.	W4BKC	91
7.	WA4NBT	278	17.	W4EHV	85
8.	K4VFX/4	244	18.	WB4FLW	78
9.	W4FPC	233	19.	WB4EPD	77
10.	WB4HJW	232	20.	W4DVO	77

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NET NEWS

(Continued from Page 10)

following the recent elections. Our former net manager, Ted, WB4FLW, has had to retire pending his summer activities and plans for college. Congratulations to Ricky, and thanks to Ted for a good job. Ted will join the gang at W4DFU, Univ. of Fla. soon.

With the annual change to Daylight time we have lost some of the regular members and gained a few, also. Welcome to the following new members on the TPTN roll: K4BAK, Lou, Palm Bay, W4BNE, Ray in Tampa, WB4OMG, Buddy, Starke, W4PUV, Joe in Seminole, and K4QYV, Gary at Titusville. Several other stations, such as WB4IHI, Gary in St. Pete are on the roll for part of each week.

Stations who are not on the roll and who wish to check in with or without traffic please wait until the roll is finished and the NCS calls for you. NCS will call for stations Alpha through Golf, for instance, and this means that stations whose suffix begins with letters A-G should check in then, i.e. W4ASF, W4CWI, W4GJ, etc. Please listen carefully and follow the directions of the NCS to help make a smooth running net operation. If you know the alphabet and your own call sign there is little excuse for checking in out of turn.

When checking in just give your call sign only slow enough so the NCS can copy, and then stand by. He will call later to see if you have traffic, or get more info if you are a new station. When listing traffic, especially long listings, remember that most of the NCS operators copy with a writing stick, so take it slowly. If you do it right the first time it saves a lot of repeating and wasted air time.

See the Traffic Hounds Column in Skip for the net standings. Good luck in the Field Day to all groups participating.

FLORIDA MIDDAY TRAFFIC NET

By Herb, W4LSR

Much has been said and written about the equal rights of all properly licensed hams to use a specific frequency. "Anti Net" hams even claim that a net has no right to tie up a frequency for an hour or so. Yet the same protesters would not complain if these same hams are on possibly 25 different frequencies, holding 25 separate QSO's. It all depends on your point of view. The FMTN has over 50 members. Between high noon and 1300 we tie up only one frequency for about an hour. Our only sin, as I see it, is when we move up the band for an informal or push-pull, we may forget to listen first, before we move onto another frequency for a short time. To keep our noses completely clean let's be sure we don't move on to someone else. If you do this on your own, you personally will be blamed. If you do it as a part of net operation, the entire Public Service Corps is subject to criticism.



CUDDY AND CASE, WA4SH and W4NGR operating their rig camp portable from Broken Arrow Lake, Deltona, Fla. Case and his XYL take claim to the title as "Florida's campiest hams."

T.J., WA4SCK, has been up and down with the flu. He's back on the net again but on C.W. Hope his vocal cords weren't affected. Ken, K4GG, has been in and out of the hospital and Jim, W4GDK has also been ill.

Welcome to our newest members Buddy, WB4OMG, Starke, and Tom, WB4OPL, in West Palm Beach.

This issue of Skip should arrive in your mail box soon after you return home from the Orlando Hamfest. I am sure you all will have enjoyed it. Especially the fellowship with the FMTN at the luncheon on Saturday.

FMTN held 25 sessions in April with 769 checkins averaging 30.8. 342 pieces of traffic averaged 13.7.

FLORIDA PHONE TRAFFIC NET

By Case, W4NGR

Well! The change from Eastern Standard time to Daylight Savings time went off without too many stations being caught with their "hands" down. FMTN now comes on at 11:00 Zulu which is still 7 A.M. on your clock.

You've heard many excuses why this or that won't work or falls down. Well, W4VNA, Cook has a good one for why his antenna came down. He says it was because "Too many birds perched on it!" Truth is, he's had that wire up so long the birds think it's just for them.

A big hello and welcome to the net to Vince, WA4NNW of Gainesville; WA4WTC, Pappy in Jacksonville and WA4PWD, Ross in Miami Springs.

QCWA

"GATOR CHAPTER" Wes Edmonds, W4TPA

On May 4th I had the good fortune to work our Executive Secretary Gus Girona W2JE, and he asked that I extend to all members of all Florida Chapters his best regards and informs you that the 1970-71 Year Book has gone to press and the galley proofs have been returned to headquarters for checking and that they expect to be returned to the printers by June 1st. Mailing will be around June 11th. If you did not become a member by May 1st you will not be listed in this issue.

Our congratulations to Bob Hall W4CON, who did such a swell job on April 26th. when Mother Nature silenced on a local level the powerful voice of our MULTILOQUOUS (look that one up fellows) net control Bob David W4YK. More on our Orlando meeting next month.

To you who are moving to cooler climes this summer do have a wonderful time.

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FLORIDA PUBLIC SERVICE CORPS

Ken, W4SMK

ARRL now recognizes phone patching as a legitimate public service activity, and gives points for same in the QST PSHR column. It is good that the FCC and telephone companies have finally taken actions to remove phone patching from a gray area of illegality into the light of legality, providing certain standards are met.

Amateurs engaged in phone patching should check with their local telephone company concerning requirements for inter-face equipment and charges. They should likewise keep informed of the techniques needed to assure that unnecessary interference to other telephone users will not occur. Hams on party lines should be especially considerate not to hog the line while patching. Many technical articles on patches and patching techniques have appeared in the journals and no comment is needed in this area.

Unlike formal traffic nets, which meet at specified times and on specified frequencies, phone patching activities occur rather at random in the amateur phone bands. There are areas of the bands which are used for patching by gentleman's agreements, but these are rather vague. For this reason interference to general operating is more severe from phone patching than from nets where many stations use one frequency. Therefore patching should be engaged in with this idea in mind, and also with the knowledge that long distance rates in the US have been reduced to quite reasonable levels.

Judicious patching of over seas stations (where legal), shipboard amateur stations, military people, etc. is commendable. The use of amateur frequencies for excessive patching within a state, or even between states, on a crowded amateur band hardly qualifies as a great service to your fellow amateurs, even if it may be a public service. Like most activities patching can be over done, and if the HF bands are any example, frequently is.

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FSBN Wednesday
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GATOR NET (GN)
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Net Manager: W4IA

TROPICAL PHONE TRAFFIC
NET (TPTN) Daily except Sun.
5 p.m. on 3940 kc.
Net Manager: WB4FLW

FLA. AMATEUR SIDEBAND
TRAFFIC NET
(FAST) Daily except Sat.
6 p.m. on 3940 kc.
Net Manager: WA4SFF

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(WFPN)
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Net Manager W4MQQ

FLA. PHONE TRAFFIC
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7 a.m. on 3940 kc. Net
Mgr: W4NGR

FLA. MIDDAY TRAFFIC NET
Daily except Sun. at 12 noon
On 7254 kc. Net Mgr. W4SDR

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2:30 p.m. on 7165 kc.
Net Manager: WN4NCH

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GOOF DEPT.

Last month in our lead Hillsborough Red Cross story, we listed Earl Miller, K4HFF as K4JHH and George Orth, WA4THT as WB4THT. We also omitted Seward, WA4FTP, XYL Helen K2GSP, Vanpatten, Operation's coordinator at the Red Cross Hq. These two folks operated at Red Cross Communications Center, 10 a.m. to 5 p.m. throughout the entire 6 day exercise. Thanks to Ray, W4BNE for bringing this to our attention.



OPERATING FROM her second home near Sarasota is the famous Mae Burke, W3CUL/4, OM, A1, W3VR, has the equipment set up in a utility room of their new mobile home. Mae and Al returned to Morton, Pa., during May. Mae has lead the nation in her traffic work for many years and holds countless awards and trophies. Hurry back, folks.

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WANTED: Can someone lend me a manual for a CE-10A or 10B? Need it long enough to make a Xerox copy. Will pick up and return in Dade-Broward area. Dan Zerick, K4JHT, 4116 Roosevelt St., Hollywood, Fla. 987-4911.

FOR SALE: Johnson Invader 2000 perfect condition, complete with manual \$400.00. Johnson Kilowatt Matchbox, complete with SWR meter \$135.00. Hammarlund HQ-170C \$175.00. All in excellent operating condition. Fred Peck, W4SPE, 835 Messina, Coral Gables, Fla. 33134 Phone 443-8939.

CUSTOM CONSOLES FOR AMATEUR RADIO STATIONS. EQUIPMENT MAY BE UPDATED BY CHANGING ONLY FRONT PANEL. INQUIRIES AND ORDERS NOW BEING ACCEPTED. LITERATURE WITH PICTURES AVAILABLE. "ACE" GOODWIN, W4WEU, 2510 Via Havarre, Merritt Island, Fla. 32952.

FOR SALE: SWAN 350 transceiver with matching a.c. power supply and speaker, Astatic 10-D mike and stand, Heath HD-10 electronic keyer, Johnson phone patch, Hustler 4 band trap vertical antenna, hardly used, complete \$425.00. Glenn White, WB4POU, 4834 Lake Charles Dr., North, Kenneth City, Fla. 33709 Phone (813) 544-8118.

FOR SALE: Best offer, Heath Senica VH-F-1, Knight ZM TR-108, Lambda LE-105, 0-18V 0-8A .005 regulation. Phil Marsh, 2065 N. Highland, Apt. 312 K-1, Clearwater, Fla. 33515.

WANTED: Fold-over, crank-down tower with tri-band beam installed on my concrete base. Offer \$750.00. FM Stereo tuner, preselector, 70 watt amp, large reflex speaker system, cross-over networks to 4 speakers each cabinet, Miracord changer. W. Guy Watson K4APE, 2550 NE 20th Terr., North Miami Beach, FL 33160 Phone 945-6487.

MUST SELL: COMPLETE RBS galvanized 40 foot E-Z way tilt over tower with TA-36 Mosley 6 element beam, with Ham-M rotator, also ground post not in cement and 100 foot RG8U feed line. Ham-M rotator, overhauled by the CDR Co. still in its carton. Price \$75.00. Selling on account of long siege of illness. Moe Stabin, K4DJW, 1136 SW 74th Ct., Miami, Fla. Phone 228-3332.

SWAP: 105 feet brand new coax cable foam AX-59 U for 70 feet of new RG58 U coax. Walt Stock W4HIS, 117 NW 100th St., Miami Shores, FL 33150 phone PL 4-2995.

FOR SALE: Galaxy V Mk II and remote VFO RV-1 \$325.00. Excellent condition. T. H. Goldsmith WB4EQU, 49 Memorial Parkway N.W., Fort Walton Beach, FL 32548 phone 243-4607.

FOR SALE: Mosley beam, TA-33 and rotator CDR TR-44, and control cable, all for \$125.00 cash. Ed Sipple WB4OKH, 525 Elizabeth Place, South Daytona, FL 32019 phone 767-5974.

STOLEN EQUIPMENT: While in Florida on April 2, 1970 my car was burglarized in North Ft. Myers, Fla. Stolen was a Lafayette 6 meter solid state transceiver model HA-750. Ser. No. 10041. Anyone having information about this equipment is requested to contact Larry Haut WAEDIO, 3229 Blue Lake Dr., Flint, Mich. 48506 call collect 313-742-0470.

IF ON THE RED PLANET, MAN MAKES HIS ABODE, THE FIRST THING HE WILL NEED, IS A NEW MARS CODE . . . W4EEO, Sanford, Fla.

WANTED: The CW county Hunters net welcomes all interested in CW county hunting to join their nets, Sat. 14070 KHz, 1400 and 2000 GMT. Sun. 7055 KHz at 1600 GMT Wed. 7055 KHz at 2400 GMT. A sample of the CW CHN newsletter can be had free from Jim Hoffman K1ZFQ, 42 Cresham St., Milford, CT. 06460.

FOR SALE: COLLECTORS ITEMS. Murdock variable condensers model 367 \$15.00, model 368 \$10.00 (1914). Jove crystal detector \$10.00 (1920) DeForest crystal detector \$10.00 (1919) U.S. Navy crystal detector \$25.00 (1920) Chelsea variable inductance 16 taps \$15.00 (1918). J. H. Bunnell telegraph sounder mounted, key missing (1916) \$10.00. TA-33 Jr with TR-44 rotor \$75.00. GR Variac 500 watt \$7.00. Two Barker Williamson speech amplifier modulator units 75 watt, no tubes, uses 2 6146 in final \$10.00 each. Will swap 35 mm telephoto lens 36 inch f 6.3 Tessar with SLR camera mounted on custom base with commercial TV camera tripod, cost over \$1000.00 will swap for 5-band selectable SB transceiver. Bell Howell 70 AB 16mm movie camera, 25 mm f 1:5 lens with prismatic r.f. or \$25.00. More next month. Tom Chisholm W4FP, P.O. Box 2273, Lakeland, Fla. 33803.

WANTED: RADIO BROADCAST MAGAZINE \$1.00 PER COPY. In good condition, single or a number of different issues, from Volume 1, number 1 to Vol. 8, No. 6. Let me know what you have and if not already secured I will mail a check to cover purchase and postage. Arthur H. Lynch W4DKJ, 5265 Nautilus Dr., Cape Coral, Fla. 33904.

FOR SALE: SX-101, matching speaker \$100.00. Advance antenna relay 110 v.a.c. with DPDT \$10.00. Collins 189-A patch \$16.00. All good condition all FOB. W. J. Schuch WB4NHH, P.O. Box 385, Destin, FL 32541 Phone 837-6438.

FOR SALE: Collins 75S3C, 32S3, 516F2, 312B4, SM2, BT1 linear, 60 extra xtals, all mounted in 8 foot walnut console. \$2,000.00 Donald P. Pittmann W4FBN W7BQI, 1231 SW 4th Ave., Pompano Beach, FL 33060.

FOR SALE: COLLINS 32S1 transmitter 516F2 PS \$400.00, 75S3 receiver \$350.00. Collins 312B4 station control \$125.00. Collins dummy load \$50.00. Collins SMI mike \$20.00. John Fearon, 3384 Peachtree Rd., N.E., Suit 705, Atlanta, GA 30328.

TRANSFORMERS REWOUND. Jess Price, W4CLJ, 411 Gunby Ave., Orlando, FL 32801. Phone (305) 425-7251.

FOR SALE: Knight R-100 receiver with S-meter and speaker \$60.00. Heath DX-100B 200 watt transmitter \$60.00. Both \$100.00 in excellent condition. Hallcrafters S-40A \$30.00. Cal Watts W4YJV, 596 Gatlin Ave., Orlando, FL 32806. Phone 424-8857.

FOR SALE: CLARE HG-1002 mercury wetted contact relay, perfect for electronic keys \$2.00 each. Simpson hi-sen relay, model 800C .10 ua 7000 ohms, plug in type \$2.00. Heath Kit type checker model TC-2 \$12.00. Andy Clark W4LYT, 41 Lenape Dr., Miami Springs, FL 33166 Phone 888-3874.

FOR SALE: SB-34 transceiver \$250.00. SB-2 linear amplifier \$175.00, like new, will take \$400.00 for both. Also TB-500 Hornet Tri-Bander. HW-30, 2 meter transceiver with xtals and 10 element Hy-Gain beam, make offer. Bill Moffatt, W4RVX, Rt. 1 Box 386, Bartow, FL Phone 533-3657.

FOR SALE: Amplifier parts, 4 each good 811A tubes, sockets, plate caps, FC-15 filament, choke, filament xfmr, H.D. roller inductor, tuning capacitor and plate choke. Package \$25.00. Winky, WA4NBT, 2431 Madison St., Hollywood, FL 33020 phone 929-9300.

FOR SALE: Heath "Chippewa" amp model KL-1, 80-10 meters, 1 KW c.w. Class C, 2-KW PEP SSB, class AB-1 excellent condition \$300.00 or best offer. Robert D. Patten, W4OZF, 2311 W. Nassau Dr., Miramar, FL 33023 Phone 981-2732.

ENTIRE STATION: 75S3 speaker, 32S1 516F2 PU, SB-300 linear, 2400 W. 50 ohm load, HA-1 auto keyer with bug. Compact 80 - 40 inverted Vee with mast. Equipment A-1 and service bulletins up to date. \$1175.00. Dale Williams W4EPC, 427 Zamora Ave., Coral Gables, Fla. Phone 448-8562.

FOR SALE: TA33B Sr. antenna, handles full legal power, 10, 15 and 20 meters with CDR Ham M rotator complete with manual and control unit. Package only \$120.00. Edward D. Meeker WA4QEO, 5444 Sanders Road, Jacksonville, FL 32211 Phone 904-737-2900 home 904-744-2413.

FOR SALE: Two way Communications & Electronic Sales Service Shop. Also have Lafayette Associate Store Contract. Over \$100,000.00 a year gross. Contact Mr. Louis C. Bergenroth, 2704 Okeechobee Road, Ft. Pierce, Fla. 33450.

FOR SALE: New 4 and 8 track cartridge recorder for use with external amp on play back \$85.00. Surplus signal generator 1-222-A, 150-230 Mc and 8-15 mc with calibrated attenuation for 114 v.a.c. in new condx \$65.00. New solid-state portable SW rcvr, super het using plug-in coils to cover .54 to 31.5 mc in 6 ranges \$20.00. Stereo record player with solid-state amp \$15.00. Elmar PRM-4A mobile amateur band rcvr \$20.00. Norman Gerber W4ZRT, 860 N.E. 81st St. Miami, Fla. 33138 Phone 758-2658.

FOR SALE: Heath Q multiplier HW-11, very clean \$8.00. GONSET super-six amateur band converter \$10.00. Teletype paper, continuous fold, per case \$3.50. 6 meter 3 ring halo mobile or fixed antenna, coax and connector \$7.00. Heavy duty 10 meter ground plane, good for at least 30 thousand QSOs. \$10.00. Filter condx 2MF at 4000 vults \$2.00. All FOB. Andy Clark W4LYT, 41 Lenape Dr., Miami Springs, Fla. 33166 phone 888-3874.

FOR SALE: GONSET GSB100 5 band 100 watt transmitter exciter. New tubes, power transformer, aligned with lab instruments \$970. Manual USB, CW, AM, FOX, looks like new. Money order or cashiers check \$95.00. FOB Tampa. 58 pounds. G. L. Roberts KANX, University of Tampa, Tampa, Fla. 33606.

WANTED: power transformer, 3300 each side of center at 300 mhz with 110-200 v.a.c. primary. Give condition and price in first letter. A. R. Marcy W4ID, 461 Third Ave., Sea Park, Eau Gallie, Fla. 32935

FOR SALE: R4B-MS4 with WWV, MARS-4025 all of 10 meters, mint condx \$350.00 Ray Farwell WB4BJ, 370 N.E. 147th Terr., North Miami, Fla. 33161

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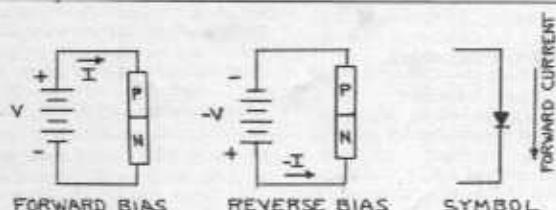


FIGURE 1 - DEFINITIONS

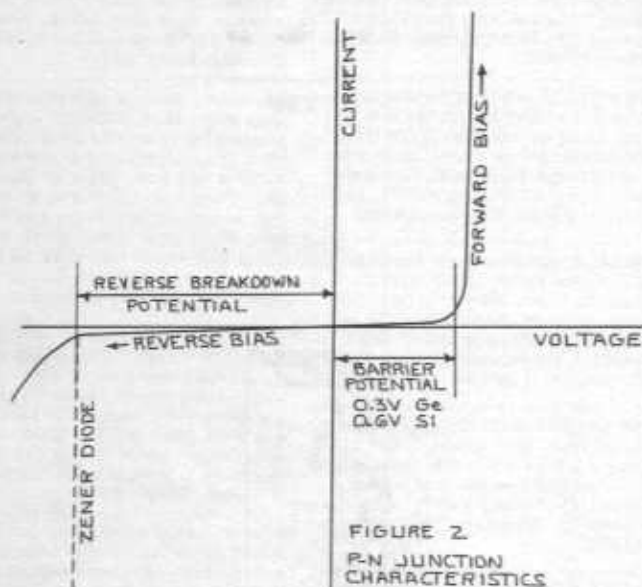


FIGURE 2.
P-N JUNCTION
CHARACTERISTICS

HURRICANE FACTS

By K4UBR

Doctor Robert H. Simpson, Director of the Miami Hurricane Center, addressed the Playground ARC and invited guests on March 4th, on the inexact science of hurricane forecasting.

His presentation of the forecasting system, storm tracking and storm detection caused many an eye to widen in disbelief as the eminent tropical storm specialist described the many unpredictable parts of a severe tropical storm. He said that the biggest threat from any storm lies in the populace relying on unfounded beliefs that certain coastal areas have a mythical immunity from hurricanes. This mythical immunity causes people to wait too long to make the decision to seek higher and safer ground. He emphasized that everyone in a hurricane prone area should take it upon himself to find out the best evacuation route and how vulnerable to flooding the lowest point is and to plan his movements accordingly.

A hurricane is nature's way of

relieving an over-heated condition. When the sun and the moon combine their gravitational forces they can influence the formation of hurricanes. If the sea forces are combining to create a high tide at the time that a hurricane goes ashore, there will be an unusually higher storm wave associated with the hurricane.

Doctor Simpson was especially grateful to the Amateur Radio Operators for their assistance during difficult times. He and everyone present felt that the Radio Amateurs participation in hurricane warning and weather relaying will continue to be important to this far-sighted researcher of nature's most vicious storms.

Doctor Simpson explained how hurricane Debby was seeded several times during a 2 or 3 day period and a decrease in wind velocity of approximately 20 percent was recorded after seeding. This proved conclusively that hurricane wind velocity can be reduced by seeding.

SOLID STATUS

By Dick Blasco WA4DHU 2

(Editor's Note: Dick Blasco has agreed to write us more of these articles if our readers would like them. Drop us a line today if you want more next month and months to come.)

"Transistors are here to stay." This statement might disturb a few hams, but it is a fact of life for everyone interested in electronics. The fact that many amateurs have been slow to accept solid state electronics is due primarily to two reasons: 1) Transistors are a little trickier to bias than tubes; 2) Basic transistor theory has been presented to the ham on a level really needed only by engineers, with quantum physics, band diagrams, loop and transcendental equations thrown in to both confuse and impress him.

The first objection must be lived with, but it isn't as bad as it seems. It will be shown that for practical transistor biasing, you can get by with Ohm's law and a handful of assumptions. The second objection is quite valid, however. All of the "high-falootin' rigamarole" everybody goes through was necessary in the days when it was hard to believe that a little piece of rock can amplify. However there are so many transistor radios and stereos around that most people now believe in transistors, and there no longer is a need to show mathematically that they will work, or why they work. I wonder how many hams would have accepted vacuum tubes if they first had to learn static field theory and electron ballistics. Not very many. But if you look at it, vacuum tube theory and manufacturing techniques are quite involved when you get into the nitty-gritty of it. So these articles will ignore the modern physics and attempt to present transistors on the same level that tubes are presented to amateurs. The Nature of the Beast.

Transistors and diodes are generally made from either Germanium or Silicon. There are two types of each used in these devices: P-type and N-type. The place where the two types of material comes together is called a junction. When a P-N junction is hooked up to a voltage supply as in figure 1, current will flow across it as shown in figure 2. Assuming that current flows from positive to negative (which only gives a common convention — this theory could just as easily be explained with current flowing the other way): notice that when positive voltage is put on the P material and negative voltage on the N material, very little current flows until a "barrier" potential (0.3 volts Germanium and 0.6 volts for Silicon) is reached. After that, current increases very rapidly with very little increase in voltage. This barrier voltage depends almost entirely on the type of material and has little to do with the physical size of the junction. This is the FORWARD BIAS condition.

Turning the battery or voltage source around so that negative voltage is on the P material and positive voltage is on the N material, the REVERSE BIAS condition occurs. Very little current flows until the "reverse breakdown voltage" is reached, past which current increases rapidly with small increase in voltage. This reverse breakdown voltage depends on the size of the junction and the degree to which the material is P or N type. Thus the reverse breakdown voltage varies widely from device to device, and can be anywhere from 5 to 3000 volts. When a junction is carefully designed, the reverse breakdown curve can be made quite sharp, as shown in figure 2, and you have a "Zener" diode which can be used for voltage regulation.

Notice that if the junction bias voltage is between the reverse breakdown and forward barrier potentials, the junction appears to be an open circuit, and if the voltage is greater than the barrier or breakdown voltage the device looks like a short circuit.

The symbol for a P-N diode is shown in figure 1. NOTICE THAT THE ARROW ALWAYS POINTS IN THE DIRECTION OF FORWARD-BIAS CURRENT FLOW, assuming current from positive to negative. The arrow also always points toward the N material. This same convention is ALSO TRUE FOR TRANSISTORS.

That is the nature of the P-N junction, which is central to all solid-state theory. The next article will explain some of the basic characteristics of transistor behavior.